

The Sustainability Accounting Standards Board (SASB) Standards identify the sustainability topics (environmental, social and governance) most relevant to the financial performance and enterprise value of companies in an industry. These standards are designed to provide investors with decision-useful information about individual companies within, and allow for the comparison of companies across, an industry.

The report to follow is the Southern Company¹ response to the Electric Utilities & Power Generators industry standard based on data² for the 2023 calendar year.

Unless otherwise noted, data reported for retail subsidiaries is based on gross Scope 1 amounts without regard to any renewable energy credits, carbon offsets, or other similar product that may be applied to or generated with energy used to serve any particular retail or wholesale load.

Greenhouse Gas Emissions & Energy Resource Planning

Code	Accounting Metric	Response/Reference		
IF-EU-110a.1	1. Gross global Scope 1 emissions (metric tons CO ₂ e)	2022		2023
		84,900,000		79,300,000
	2. Percentage of gross global Scope 1 emissions covered under emissions-limiting regulations	2022		2023
		0%		0.4%
	3. Percentage of gross global Scope 1 emissions covered under emissions-reporting regulations ³	2022		2023
		99%		98%
IF-EU-110a.2	Greenhouse gas emissions (GHG) associated with power deliveries ⁴ (metric tons CO ₂ e)	2022		2023
		Alabama Power Company	32,800,000	27,700,000
		Georgia Power Company	32,400,000	32,200,000
		Mississippi Power Company	6,100,000	6,300,000
IF-EU-110a.3	Discussion of long- and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	2023 Sustainability Summary (Pages 12-18)		
		Southern Company Net Zero Q&A Supplement (2023)		
		Emissions reduction targets: <ul style="list-style-type: none">50% reduction in GHG emissions by 2030, relative to 2007 baselineNet zero GHG emissions by 2050		
		Emissions reduction progress for Scope 1, relative to the 2007 baseline ⁵ :		
		2022		2023
		46% reduction		49% reduction

Air Quality

Code	Accounting Metric	Response/Reference				
IF-EU-120a.1	Air emissions of the following pollutants:					
	1. NO _x (excluding N ₂ O) (metric tons)	<table><tr><th>2022</th><th>2023</th></tr><tr><td>28,339</td><td>26,241</td></tr></table>	2022	2023	28,339	26,241
	2022	2023				
	28,339	26,241				
	2. SO _x (metric tons)	<table><tr><th>2022</th><th>2023</th></tr><tr><td>9,295</td><td>8,664</td></tr></table>	2022	2023	9,295	8,664
	2022	2023				
	9,295	8,664				
	3. Particulate matter (PM ₁₀)	Southern Company does not collect data at the system level for PM ₁₀ .				
	4. Lead (Pb) ⁶ (metric tons)	<table><tr><th>2022</th><th>2023</th></tr><tr><td>0.281</td><td>0.236</td></tr></table>	2022	2023	0.281	0.236
	2022	2023				
0.281	0.236					
5. Mercury (Hg) ⁶ (metric tons)	<table><tr><th>2022</th><th>2023</th></tr><tr><td>0.134</td><td>0.101</td></tr></table>	2022	2023	0.134	0.101	
2022	2023					
0.134	0.101					
Percentage of each in or near areas of dense population	The percentage of emissions is not tracked or calculated based on population density.					

Water Management

Code	Accounting Metric	Response/Reference	
IF-EU-140a.1	1. Total water withdrawn (thousand cubic meters)	2022	2023
		2,802,924	2,797,759
	2. Total water consumed (thousand cubic meters)	2022	2023
		279,413	293,447
	Percentage of each in regions with High or Extremely High baseline water stress		0% High (2023) 0% Extremely High (2023) Southern Company's electric generation facilities are located in regions with low- or low-to-medium baseline water risk.
IF-EU-140a.2	Number of incidents of non-compliance associated with water quality permits, standards and regulations	Southern Company does not disclose a summary of incidents of non-compliance associated with water quality permits, standards and regulations.	
IF-EU-140a.3	Description of water management risks and discussion of strategies and practices to mitigate those risks	Southern Company Form 10-K (2023; Page I-19)	

Coal Ash Management

Code	Accounting Metric	Response/Reference	
IF-EU-150a.1	1. Amount of coal combustion products (CCPs) generated (metric tons)	2022	2023
		2,245,792	2,034,704
	2. Percentage recycled	2022	2023
		93%	92%
		Percentage of coal combustion products (CCPs) beneficially used.	
IF-EU-150a.3	Description of coal combustion products (CCPs) management policies and procedures for active and inactive operations ⁷	Alabama Power CCR Compliance Data and Information Georgia Power CCR Compliance Data and Information Mississippi Power CCR Compliance Data and Information	

Energy Affordability

Code	Accounting Metric	Response/Reference
IF-EU-240a.1	Average retail electric rate for: 1. Residential customers 2. Commercial customers 3. Industrial customers	Alabama Power Company Residential Rates
		Alabama Power Company Business Rates
		Georgia Power Company Residential Rates
		Georgia Power Company Business Rates
IF-EU-240a.3	1. Number of residential customer electric disconnections for non-payment 2. Percentage reconnected within 30 days	Mississippi Power Company Residential Rates
		Mississippi Power Company Business Rates
		Southern Company does not disclose information on residential customer electric disconnections.
IF-EU-240a.4	Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service	Southern Company Form 10-K (2023; Pages I-15 - I-28)

Workforce Health & Safety

Code	Accounting metric	Response/Reference
IF-EU-320a.1	1. Total recordable incident rate (TRIR)	
	a. Direct employees ⁸	2022 1.35 2023 1.40
	b. Contract employees ⁹	0.40 0.57
	2. Fatality rate	
	a. Direct employees ⁸	2022 0 2023 0
	b. Contract employees ⁹	0 1
	3. Near miss frequency rate (NMFR)	
	a. Direct employees ⁸	Southern Company does not track or calculate a near miss frequency rate.
	b. Contract employees ⁹	

End-Use Efficiency & Demand

Code	Accounting Metric	Response/Reference
IF-EU-420a.2	Percentage of electric load served by smart grid technology	100%
IF-EU-420a.3	Customer electricity saving from efficiency measures, by market	Alabama Power Company Georgia Power Company Mississippi Power Company

Nuclear Safety & Emergency Management

Code	Accounting Metric	Response/Reference
IF-EU-540a.1	Total number of nuclear power units, broken down by results of most recent independent safety review	Southern Company Form 10-K (2023; Page I-10 - I-11, I-29 - I-33) NRC Action Matrix Farley 1 - Quarterly Performance Summary Farley 2 - Quarterly Performance Summary Hatch 1 - Quarterly Performance Summary Hatch 2 - Quarterly Performance Summary Vogtle 1 - Quarterly Performance Summary Vogtle 2 - Quarterly Performance Summary Vogtle 3 - Quarterly Performance Summary Vogtle 4 - Quarterly Performance Summary
IF-EU-540a.2	Description of efforts to manage nuclear safety and emergency preparedness	Plant Farley Plant Hatch Plant Vogtle

Grid Resiliency

Code	Accounting Metric	Response/Reference			
IF-EU-550a.1	Number of incidents of non-compliance with physical or cybersecurity standards or regulations	Data for this metric are not disclosed due to confidentiality and security concerns.			
IF-EU-550a.2		Transmission System		Distribution System	
	1. System Average Interruption Duration Index (SAIDI), inclusive of major event days	2022	2023	2022	2023
		5.5	4.8	136.1	109.6
	2. System Average Interruption Frequency Index (SAIFI), inclusive of major event days	2022	2023	2022	2023
		0.085	0.090	1.155	0.993
	3. Customer Average Interruption Duration Index (CAIDI), inclusive of major event days	2022	2023	2022	2023
		65	53	118	110

Activity Metrics

Code	Activity Metric	Response/Reference				
IF-EU-000.A	Number of customers served ¹⁰ :					
	1. Residential	2022		2023		
		3,844,000		3,890,000		
	2. Commercial	2022		2023		
		566,000		570,000		
	3. Industrial	2022		2023		
		17,000		17,000		
IF-EU-000.B	Total electricity delivered to customers ¹¹ :					
	1. Residential (MWh)	2022		2023		
		49,600,000		47,100,000		
	2. Commercial (MWh)	2022		2023		
		48,300,000		48,300,000		
	3. Industrial (MWh)	2022		2023		
		49,500,000		48,600,000		
	4. All other retail (MWh)	2022		2023		
		600,000		500,000		
	5. Wholesale (MWh)	2022		2023		
		56,300,000		51,000,000		
	IF-EU-000.C	Length of transmission and distribution lines (km)	2022		2023	
			Transmission	40,075	39,502	
Distribution			273,959	258,645		

Code	Activity Metric	Response/Reference
IF-EU-000.D	1. Total electricity generated (MWh)	Gross Electricity Generated
		20222023
		193,665,000191,559,000
	2. Percentage of electricity generated by major energy source	Net Electricity Generated
		20222023
		187,099,000185,735,000
	3. Percentage of electricity generated in regulated markets	Net Electricity Generated by Energy Source (2023)
		Generation SourceMWh% of Total Net Electricity Generated
Coal32,115,00017.29%		
Oil59,0000.03%		
Natural Gas99,977,00053.83%		
Nuclear32,753,00017.63%		
Hydropower4,935,0002.66%		
Wind8,804,0004.74%		
Solar6,210,0003.34%		
Other882,0000.47%		
Total185,735,000100.00%		
Southern Company does not track or calculate the percentage of electricity generated in regulated markets.		
IF-EU-000.E	Total wholesale electricity purchased (MWh)	20222023
		17,386,14614,600,432

- 1 Southern Company is a holding company that conducts its business through its subsidiaries. Accordingly, unless the context otherwise requires, references in this document to Southern Company's operations, such as generating activities, greenhouse gas emissions and workforce, refer to those operations conducted through its subsidiaries.
- 2 Data presented in the tables below may be rounded.
- 3 Southern Company's gross global Scope 1 emissions are covered under emissions-reporting regulations (EPA's Greenhouse Gas Reporting Program).
- 4 The data for the greenhouse gas (GHG) emissions associated with power deliveries are finalized in the spring and published midyear.
- 5 As reported in the Southern Company Form 10-K: [2023 10-K](#) | [2022 10-K](#).
- 6 Emissions from equity-owned electricity generated for sale to retail and wholesale customers. Does not include gas sector, purchased power or leveraged lease facilities. Southern Company reports releases of Toxic Release Inventory (TRI) compounds, including lead and mercury, as required by the EPA. In general, data are available in the summer following the reporting year.
- 7 The data provided for IF-EU-150a.3 refers to "coal combustion residuals" per the regulatory requirements outlined in 40 C.F.R Part 257, Subpart D.
- 8 Direct employees are those Southern Company or a subsidiary manages daily and includes in OSHA reporting, such as full-time employees, cooperative students, interns and leased employees.
- 9 Contract employees are those whose daily work is managed by, and who are included in the OSHA reporting for, another company. Safety data for contract employees are available for limited business units, and therefore are not representative of all contract employees in the Southern Company system.
- 10 As reported in the Southern Company Form 10-K: [2023 10-K](#) | [2022 10-K](#).
- 11 As reported in the Southern Company Form 10-K: [2023 10-K](#) | [2022 10-K](#).